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Code

JupyterLab Python 3 (ipykernel)

```
[225]: a.keys()

[225]: dict_keys(['model', 'clr', 'place'])

[226]: #11 sort dictionary by values

[229]: b=a.values()

[233]: c=list(b)

[234]: c

[234]: ['f', 'black', 'goa']

[235]: c.sort()

[236]: c

[236]: ['black', 'f', 'goa']

[237]: c.reverse()

[238]: c

[238]: ['goa', 'f', 'black']

[239]: # union of list 10
```


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Code

JupyterLab Python 3 (ipykernel)

```
 't': 1,
 'h': 1,
 'o': 1}
```

[ ]:
```
#8.to reverse list at specific point
```

[27]:
```
a=['abc','xyz','aba','1221','1223']
```

[25]:
```
a[-3::-1]
```

[25]:
```
['aba', 'xyz', 'abc']
```

[33]:
```
a=['mom','lol','sir']
```

[28]:
```
a='moon'
```

[29]:
```
a[0:]
```

[29]:
```
'moon'
```

[32]:
```
a[::-1]
```

[32]:
```
'noom'
```

[42]:
```
for i in a:
    if i[0:]==i[::-1]:
        print('palindrome')
    else:
```


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Code JupyterLab Python 3 (ipykernel)

[32]:
```
'noom'
```

[42]:
```
for i in a:
    if i[0:]==i[::-1]:
        print('palindrome')
    else:
        print('not')
```

```
palindrome
palindrome
not
```

[46]:
```
#sum of items in list
```

[52]:
```
a=[1,2,3,4,5]
```

[53]:
```
sum(a)
```

[53]:
```
15
```

[114]:
```
a={'model':'f','clr':'black','place':'goa'}
```

[115]:
```
b=list(a.items())
```

[117]:
```
b.sort()
```


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Code JupyterLab Python 3 (ipykernel)

[118]:
```
list(b)
```

[118]:
```
[('clr', 'black'), ('model', 'f'), ('place', 'goa')]
```

[86]:
```
c=b[::-1]
```

[87]:
```
dict(c)
```

[87]:
```
{'place': 'goa', 'model': 'f', 'clr': 'black'}
```

[119]:
```
# sum of values in dict 13
```

[120]:
```
a={'model':5,'clr':6,'place':7}
```

[121]:
```
sum(a.values())
```

[121]:
```
18
```

[ ]:

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Code

JupyterLab Python 3 (ipykernel)

```
[78]: 1
[78]: 1
[79]: a=[1,2,3,4,5,6]
[87]: a[1]
[87]: 2
[89]: type(a)
[89]: list
[90]: a
[90]: [1, 2, 3, 4, 5, 6]
[144]: a=['orange','banana','apple','1']
[95]: a.sort()
[96]: a
[96]: ['apple', 'banana', 'orange']
[99]: 2.to count no. of strings and string length is 2 or more and 1st and last character same
```


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Code

JupyterLab Python 3 (ipykernel)

[99]:
```
2.to count no. of strings and string length is 2 or more and 1st and last character same
```

[99]:
```
2
```

[ ]:
```

```

[176]:
```
for i in a:
    print(i,type(i))
for i in a:

    if len(i)>=2:
        print('words with string lenth 2 or more')
        print     ( i,len(i))

b=len(a)
print('no. of strings is')
print(b)
```

```
orange <class 'str'>
banana <class 'str'>
apple <class 'str'>
1 <class 'str'>
words with string lenth 2 or more
orange 6
words with string lenth 2 or more
banana 6
```


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Code JupyterLab Python 3 (ipykernel)

[198]:
```
#prgrm to find if key already there in dictionary  12
```

[199]:
```
a={'model':'f','clr':'black','place':'goa'}
```

[207]:
```
#given key=model
```

[208]:
```
'model' in a
```

[208]:
```
True
```

[211]:
```
'brand' in a
```

[211]:
```
False
```

[212]:
```
# to sum all values in a dictionary  13
```

[214]:
```
b=a.values()
```

[215]:
```
list(b)
```

[215]:
```
['f', 'black', 'goa']
```

[ ]:
```
#squares in dict  14  for i<10
```

[123]:
```
{i:i**2 for i in range(1,11) if i<10}
```


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Code JupyterLab Python 3 (ipykernel)

[211]:
```
'brand' in a
```

[211]:
```
False
```

[212]:
```
# to sum all values in a dictionary  13
```

[214]:
```
b=a.values()
```

[215]:
```
list(b)
```

[215]:
```
['f', 'black', 'goa']
```

[ ]:
```
#squares in dict  14  for i<10
```

[123]:
```
{i:i**2 for i in range(1,11) if i<10}
```

[123]:
```
{1: 1, 2: 4, 3: 9, 4: 16, 5: 25, 6: 36, 7: 49, 8: 64, 9: 81}
```

[224]:
```
#sort a dict by keys 15
```

[225]:
```
a.keys()
```

[225]:
```
dict_keys(['model', 'clr', 'place'])
```

[226]:
```
#11 sort dictionary by values
```


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Code

JupyterLab Python 3 (ipykernel)

[238]:
```
c
```

[238]:
```
['goa', 'f', 'black']
```

[239]:
```
# union of list 10
```

[44]:
```
a=['abc','xyz','aba','1221']
b=['model','car','year','aba']
```

[247]:
```
a.extend(b)
```

[248]:
```
a
```

[248]:
```
['abc', 'xyz', 'aba', '1221', 'model', 'car', 'year', 'aba']
```

[243]:
```
# 10 intersection
```

[45]:
```
[i for i in a if i in b]
```

[45]:
```
['aba']
```

[ ]:

[ ]:

[ ]:

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Code

JupyterLab Python 3 (ipykernel)

[ ]:

[ ]:
```
# 4 to remove duplicates from a list
```

[1]:
```
a=['abc','xyz','aba','1221','1221']
```

[273]:
```
type(a)
```

[273]:
```
list
```

[274]:
```
set(a)
```

[274]:
```
{'1221', 'aba', 'abc', 'xyz'}
```

[275]:
```
# to create dict from string
```

[287]:
```
a={'abc':'alpha'}
```

[288]:
```
type(a)
```

[288]:
```
dict
```

[291]:
```
b='learnpython'
```

[293]:
```
{i:b.count(i) for i in b}
```

[293]:
```
{'l': 1,
 'e': 1,
```


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